





# **Technology Deployment**





## ResonantSonic™ Drill

### Problem

INEEL's Radioactive Waste Management Complex (RWMC) Remediation project needed to insert closed-end steel probetubes into a subsurface disposal area without exposing workers to transuranic or hazardous waste.

#### Baseline Technology

Conventional mud rotary drill rig.

#### Innovative Technology

The ResonantSonic Drill rig vibrates the probetube to enhance the cutting action of the tip and minimize friction between the probetube and surrounding material.

#### Comparison

Unlike a conventional drill rig, the ResonantSonic Drill does not require the use of water or mud for probetube lubrication or removal of cuttings.

#### Benefits

This technology enabled the RWMC Remediation project to safely insert probetubes during geophysical logging operations at the Subsurface Disposal Area (pits 4, 9, 10).